

Outline for ANSI Z136.1-2000 Topics

Section	Title	Notes
1	General	Overview
1.1	Scope	Standard for lasers between 180 nm and 1 mm
1.2	Application	Reasonable and adequate guidance for safe use of lasers 1 Determine class of laser 2 Comply with measures for control of hazards
1.3	Laser Safety Officer	
1.3.1	General	LSO designated w/ authority and knowledge to monitor and enforce laser standards LSO may do, or cause to be done the required things
1.3.2	LSO Specific Responsibilities	
2	Definitions	Exhaustive list running some 6 pages
3	Hazard evaluation and classification	
3.1	General	Three aspects of importance in classification
3.2	Laser Considerations	LSO ensure laser output data are valid, mfg or measurements (Section 9)
3.3	Laser and Laser System Hazard Definitions	Ref Tables 1, 2 and appendix A
3.4	Environment in which laser is used	Wide latitude for LSO regarding environment and additional controls esp. for Class 3b and 4 systems
3.5	Personnel	People who may be in vicinity of laser when in operations
4	Control Measures	
5	Laser Safety Programs and Employee Training	
5.1	General	Management has responsibility for assurance of safe use of lasers owned and operated by them
5.2	Laser Safety Program	What has to be in it; Guidance in appendix D
5.3	Education	Consider guidance in appendix D; also consider periodic training
6	Medical Surveillance	See also Appendix E
6.1	General	Rational for surveillance
6.2	Personnel Categories	Who's who determined by LSO
6.3	General Procedures	
6.4	Frequency of Exams	Baseline before work, after an accident if it happens. No periodic exam requirement

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7	Non-Beam Hazards
8	Criteria for Exposures of Eye and Skin
9	Measurements
10	Revision of Standards referenced in ANSI Z136.1-2000
Appendices	
A	Examples of Typical Lasers or Laser System Classification and MPE Values for Selected Lasers
B	Calculations for Hazard Evaluation and Classification
C	Hazard Evaluation, Classification and Control Measures
D	Guide for Organization and Implementation of Laser Safety Programs and Employee Training
E	Medical Surveillance
F	Non-Beam Hazards
G	Biological Effects of the Eye and Skin
H	Harmonization with international standards